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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/613,094	07/07/2003	Theodorus H.J. Bisschops	P 304773 P-0133.011-US	5098
	7590 05/20/2004		EXAMINER	
PILLSBURY WINTHROP, LLP P.O. BOX 10500			KIM, PETER B	
MCLEAN, VA	A 22102		ART UNIT	PAPER NUMBER
			2851	· ·
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DATE MAILED: 05/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)	_	
Office Action Summary	10/613,094	BISSCHOPS ET AL.		
· · ·	Examiner	Art Unit		
The MAILING DATE of this communication and	Peter B. Kim	2851		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply within the statutory minimum of thirty (3till apply and will expire SIX (6) MONTHS cause the application to become ABANT	be timely filed D) days will be considered timely. From the mailing date of this communication.		
Status				
1) Responsive to communication(s) filed on 09 Ap	oril 2004.			
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.			
3) Since this application is in condition for allowan	ce except for formal matters	, prosecution as to the merits is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>16-41</u> is/are pending in the application				
4a) Of the above claim(s) <u>32-35</u> is/are withdraw				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>14-31 and 36-41</u> is/are rejected.				
7) Claim(s) is/are objected to.		·		
8) Claim(s) are subject to restriction and/or	election requirement.	:		
Application Papers				
9) The specification is objected to by the Examiner		•		
10) The drawing(s) filed on is/are: a) acce		he Evaminer		
Applicant may not request that any objection to the d				
Replacement drawing sheet(s) including the correction		· ·	•	
11)☐ The oath or declaration is objected to by the Exa				
Priority under 35 U.S.C. § 119				
<u> </u>				
12)⊠ Acknowledgment is made of a claim for foreign p a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).		
1. Certified copies of the priority documents	have been received			
2. Certified copies of the priority documents		cation No. 09/551 223		
3. Copies of the certified copies of the priorit				
application from the International Bureau		· · · · · · · · · · · · · · · · · · ·		
* See the attached detailed Office action for a list o	The state of the s	eived.		
	-			
Attachment(s)	_	•		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma	nary (PTO-413) iil Date.		
3) M Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Inform	nal Patent Application (PTO-152)		
Paper No(s)/Mail Date <u>72003</u> .	6) Other:			

Application/Control Number: 10/613,094

Art Unit: 2851

DETAILED ACTION

Election/Restrictions

This application contains claims 32-35 drawn to an invention nonelected with traverse in Paper No. 42004. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Specification

The disclosure is objected to because of the following informalities: On page 11, line 20, applicant's reference number should be changed to application serial number.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 16-31 and 36-41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 16 and 36, the structural relationship between the sealing member and the rest of the projection apparatus is not clear. The sealing member disposed "proximate" an object is not clear. Also, it is not clear which structures an "inlet" and an "outlet" correspond to in the specification since the terms are not used in the written description.

The remaining claims, not specifically mentioned, are rejected for incorporating the defects from the base claim by dependency.

Application/Control Number: 10/613,094

Art Unit: 2851

The following art rejection is based on the examiner's best understanding of the claims despite the 35 USC 112 issues.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-31 and 36-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smick et al. (Smick) (5,898,179) in view of Kawata (6,038,015).

Smick teaches a projection apparatus comprising a radiation system (13), a second object table for holding an object (10), a projection system (Fig. 7) for imaging a beam on to an object, a vacuum chamber wall (24), a sealing member (12) disposed proximate an object, wherein said sealing member defines an inlet (32) and an outlet for evacuating gas (col. 5, lines 27-61).

Smick also teaches a gas supply means (25) for providing a pressurized gas to the gap of htebearing assembly (17) and a plurality of grooves (33, 38, 39) having apertures for supply of pressurized gas to create a pressure differential and maintain a seal between sealing members (col. 5, line 27 – col. 6, line 50). However, Smick does not teach a lithographic system which comprises a first object table. Kawata discloses a lithographic projection system having a first object table (6) for a mask (4) and a second object table (9). Kawata teaches vacuum chamber (c) and an airtight seal (col. 4, lines 24-40). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide a projection system having a mask and mask holder in the wafer exposure device of Smick because the use of masks to impart a desired

Art Unit: 2851

pattern in the lithographic manufacture of semiconductor wafers is taught by Kawata and is well known in the art.

Response to Arguments

Applicant argues that because Group II only has 4 claims, that it would not be an additional burden. Regardless of the number of claims, examination Group II would require searches in different classes which would be additional burden.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on Monday-Thursday from 8:30 AM to 6:00 PM. The examiner can also be reached on alternate Fridays during the same hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 571-272-2112. The fax phone numbers for the organization where this application or proceeding is assigned is 703 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571 –272-2800.

Peter B. Kim

Patent Examiner

May 10, 2004